

## Abstract

A thermochromic polymer-based temperature indicator composition which comprises a polythiophene and a carrier medium. The composition is characterized in that the polythiophene is present in the medium in an amount of about 0.05 to about 5.0% by weight  
5 based on the total weight of the composition. The structure of the compound is designed such that when the composition is placed in a heat-exchange relationship with an article, the composition will exhibit a color change when a design temperature or a temperature beyond the design temperature is reached in the article.